AMENDMENTS TO THE CLAIMS

- 1-12. (Canceled)
- 13. (Original) A method of coating a metallic foil with a corrosion-protective film comprising the steps of:
 - (a) adhering a silica colloid to at least a portion of a metallic foil; and
- (b) exposing the silica colloid adhering to the foil to a fusion temperature to effect fusion of silica particles to thereby form a silica film on the foil.
- 14. (Original) The method of Claim 13 wherein at least a portion of the foil is immersed in a bath comprising colloidal silica and withdrawn so that silica colloid adheres to at least a portion thereof.
- 15. (Original) The method of Claim 14 wherein the foil is withdrawn from the bath at a rate of about 1 mm/sec to about 100 mm/sec.
- 16. (Original) The method of Claim 15 wherein the foil is withdrawn from the bath at a rate of about 25 mm/sec.
- 17. (Previously Presented) The method of Claim 14 wherein the bath comprises silica and methanol.
- 18. (Original) The method of Claim 14 further comprising the step of applying a voltage to the metallic foil concurrent with immersion and withdrawal of at least a portion of the foil in the bath.
- 19. (Original) The method of Claim 14, wherein the bath of colloidal silica further comprises a binder selected from the group consisting of cellulose nitrate, polyvinylalcohol, polyacrylamide, and polyvinylpyrrolidone.

- 20. (Original) The method of Claim 14, wherein the bath of colloidal silica further comprises a surfactant.
- 21. (Original) The method of Claim 14 wherein the foil comprises molybdenum.
- 22. (Original) The method of Claim 13 wherein silica colloid adhering to the foil is exposed to a fusion temperature of about 1400 °C to about 1700 °C.
- 23. (Original) The method of Claim 22 wherein silica colloid adhering to the foil is exposed to a fusion temperature of about 1600 °C to about 1700 °C.
- 24. (Original) The method of Claim 23 wherein the fusion temperature is about 1650 °C.
- 25. (Original) The method of Claim 13 wherein silica colloid adhering to the foil is exposed to the fusion temperature for about one-half second.
- 26. (Original) The method of Claim 13 wherein the foil comprises molybdenum.
- 27. (Original) The method of Claim 13 wherein the silica colloid is adhered to at least a portion of the foil by electrostatic spray coating, rolling, brushing, or misting.
- 28. (Original) The method of Claim 13 wherein the step of exposing the silica colloid adhering to the foil to a fusion temperature includes exposing the colloid to a heated wire coil, an induction coil, an imaging furnace, an inert gas plasma, or a laser.
- 29. (Currently Amended) A method of applying a silica coating to a metallic foil comprising the steps of:

introducing silica powder to the plume of an argon plasma torch; and

passing the foil through the plume; and

exposing the silica powder on the foil to a predetermined fusion temperature for less than about 4 seconds, whereby a silica coating is formed on the metallic foil.

- 30. (Original) A method of making an electrical lead assembly comprising the steps of:
 - (a) providing a molybdenum foil;
 - (b) adhering silica colloid to at least a portion of the foil;
- (c) exposing the silica colloid to heat to effect fusion of the silica particles to thereby form a silica film; and
 - (d) attaching an electrical lead to one end of the foil.
- 31. (Original) The method of Claim 30 wherein a second electrical lead is attached to the other end of the foil.
- 32. (Original) The method of Claim 31 wherein the second lead is attached to the foil by crimping a portion of the foil around a portion of the lead.
- 33. (Original) The method of Claim 30 wherein the electrical lead forms an electrode for a high intensity discharge lamp.
- 34. (Original) The method of Claim 30 wherein the electrical lead forms a filament for a halogen lamp.
- 35. (Previously Presented) A method of coating a metallic strip with silica comprising the steps of:
 - (a) providing a heat source;

- (b) elevating the temperature of the heat source so that the temperature in close proximity to the heat source is a predetermined temperature;
- (c) adhering colloidal silica to at least a portion of said metallic strip; and
- (d) passing the metallic strip in close proximity to the heat source at a rate to effect the exposure of the ribbon to the predetermined temperature for a predetermined time, so that the exposure of the strip to the predetermined temperature effects fusion of silica particles to thereby form a silica film.
- 36. (Canceled)
- 37. (Original) The method of Claim 35 wherein the predetermined temperature is between about 1400 °C and about 1700 °C and the predetermined time is about one-half second.
- 38. (Original) The method of Claim 37 wherein the predetermined temperature is between about 1600 °C and about 1700 °C and the predetermined time is about one-half second.
- 39. (Original) The method of Claim 35 wherein the exposure is conducted in an inert atmosphere.
- 40. (Original) The method of Claim 35 wherein the heat source is selected from the group consisting of a conductor, induction coil, an imaging furnace, an inert gas plasma, and a laser.
- 41. (Original) The method of Claim 40 wherein the heat source comprises a coiled tantalum wire heated by the passage of electrical current therethrough.
 - 42-47 (Canceled)

48. (Original) A method of coating at least a portion of a molybdenum foil with a silica film comprising the steps of:

providing a bath including colloidal silica and a binder selected from the group consisting of cellulose nitrate, polyvinylalcohol, polyacrylamide, and polyvinylpyrrolidone;

immersing at least a portion of the foil in the bath;

withdrawing the immersed portion of the foil from the bath at a rate between about 1 mm/second to about 100 mm/second so that silica colloid adheres to at least a portion of the foil; and

heating the silica colloid adhering to the foil to a temperature between about 1400°C to about 1700°C for about one second to effect fusion of silica particles in the colloid.

- 49. (Original) The method of Claim 48 wherein the bath includes silica in methanol.
- 50. (Original) The method of Claim 48 wherein the bath includes water and ammonia and the binder is polyvinylpyrrolidone.
- 51. (Original) The method of Claim 48 wherein a voltage between about one volt and about ten volts is applied to the foil during the immersion and withdraw of the foil from the bath.
 - 52. (Previously Presented) A method comprising the steps of: adhering colloidal silica to substantially the entire surface of a metallic ribbon; and fusing the silica particles to form a silica film.

- 53. (Currently Amended) The method of Claim [[53]] <u>52</u> further comprising the steps of attaching an electrode lead to at least one narrow end of the ribbon.
- 54. (New) A method of coating at least a portion of a molybdenum foil with a silica film comprising the steps of:

providing a bath including colloidal silica and a binder;

immersing at least a portion of the foil in the bath;

heating the silica colloid adhering to the foil to a temperature between about 1400°C to about 1700°C for a predetermined time less than about four seconds to effect fusion of silica particles in the colloid.

- 55. (New) The method of Claim 54 wherein the time of heating the silica colloid is less than about one second.
- 56. (New) The method of Claim 55 wherein the time of heating the silica colloid is about one half second.
- 57. (New) A method of coating at least a portion of a molybdenum foil with a silica film comprising the steps of:

providing a bath including colloidal silica and a binder;

immersing and withdrawing at least a portion of the foil in the bath;

applying a voltage to the metallic foil concurrent with the immersion and withdrawal of at least a portion of the foil in the bath; and

heating the metallic foil, whereby the silica film forms on the metallic foil.